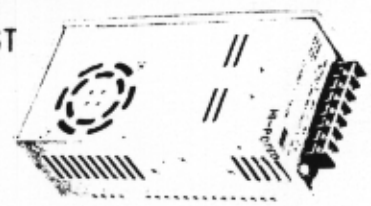
MEAN WELL

SWITCHING POWER SUPPLY

S-240 SERIES

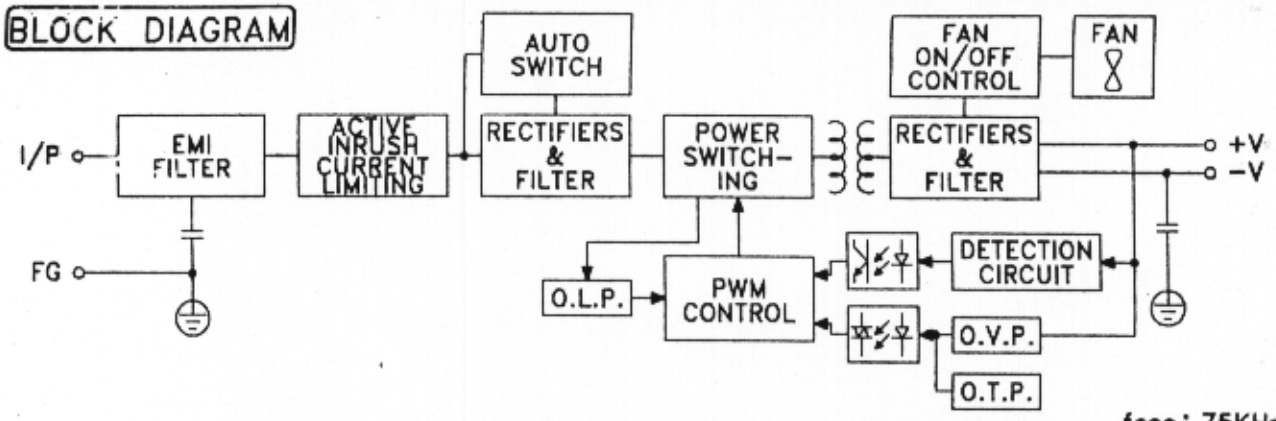
- LOW COST, HIGH RELIABILITY
- 105℃ OUTPUT CAPACITOR
- INTERNATIONAL AC INPUT RANGE
- BUILT IN EMI FILTER, LOW RIPPLE NOISE
- HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- SHORT CIRCUIT, OVERLOAD, OVERVOLTAGE PROTECTED
- COMPACT SIZE, LIGHT WEIGHT
- 100% FULL LOAD BURN-IN TEST
- FAN ON/OFF CONTROL



SPECIFICATION \ MODEL	S-240-5	S-240-12	S-240-15	S-240-24
DC OUTPUT VOLTAGE	5V	12V	15V	24V
OUTPUT V. TOLERANCE	±2%	±1%	±1%	±1%
OUTPUT RATED CURRENT	40A	18A	15A	10A
OUTPUT CURRENT RANGE	0-40A	0-18A	0-15A	0-10A
RIPPLE & NOISE (p-p)	100mVp-p	120mVp-p	150mVp-p	180mVp-p
LINE REGULATION	±0.5%	±0.3%	±0.3%	±0.2%
LOAD REGULATION	±0.5%	±0.3%	±0.3%	±0.2%
DC OUTPUT POWER	200W	216W	225W	240W
FFICIENCY	78%	82%	84%	85%
DC VOLTAGE ADJ.	4.5-5.8V	10-14V	12-18V	20-28V
INPUT VOLTAGE RANGE	88～132VAC / 176～264VAC AUTO SWITCH			
INPUT FREQUENCY	47～63Hz			
AC CURRENT	3.5A/115V 2.5A/230V			
INRUSH CURRENT	15A/115V 30A/230V			
OVERLOAD PROTECTION	105%～135% TYPE:FOLDBACK CURRENT SHUTDOWN RECOVERY:AUTO			
OVER V. PROTECTION	115%～135%	120%～140%	130%～145%	130%～145%
OVER TEMP. PROTECTION	TYP. 40℃ FAN ON, 70℃ O.T.P			
TEMP. COEFFICIENT	±0.03% / ℃			
SETUP,RISE,HOLD UP TIME	1s, 20ms, 20ms			
WITHSTAND VOLTAGE	I/P-O/P:3KV(NOTE:6) I/P-FG:1.5KV O/P-FG:0.5KV 1min.			
WORKING TEMP.,HUMIDITY	-10℃～+60℃, 20%～90% RH (REFER TO OUTPUT DERATING CURVE)			
STORAGE TEMP.,HUMIDITY	-20℃～+85℃, 10%～95% RH			
DIMENSION	190*93*65mm CASE:911			
WEIGHT	1.1Kgs			
SAFETY	UL1012,EN60950 PENDING			
MC	CISPR22 (EN55022), IEC801-2,3,4, IEC555-2 PENDING			

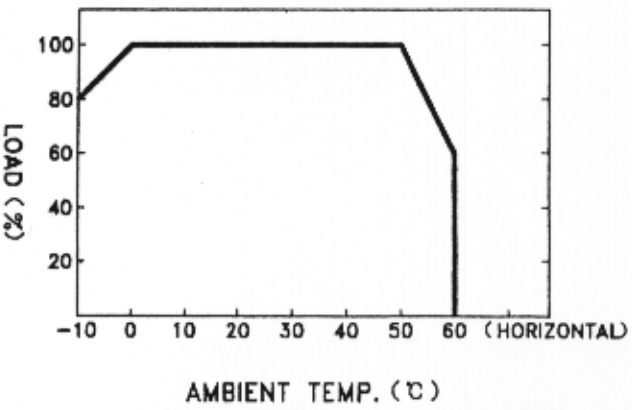
NOTE:
1. ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25℃ AMBIENT.
2. TOLERANCE : INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3. RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4. LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5. LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD.
6. C3,4,41 MUST BE REMOVED.

BLOCK DIAGRAM

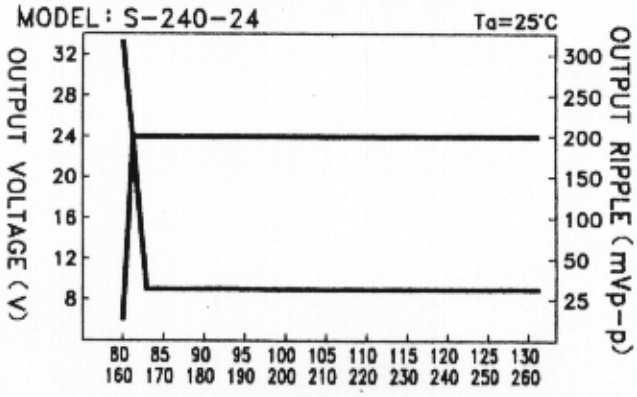


fosc : 75KHz

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)

- CASE : 911
- TERMINAL PIN NO. ASSIGNMENT
  - PIN 1,2 : AC INPUT
  - PIN 3 : FG ⏚
  - PIN 4,5 : DC OUTPUT -V
  - PIN 6,7 : DC OUTPUT +V